DECLARATEN AND POWER OF A ORNEY

As a below named inventor, I here—declare that my residence, post office accress and citizenship are as stated below next to my name: that I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of the subject matter claimed and for which a patent is sought in the application entitled:

NAVIGATION APPARATUS WITH ENHANCED POSITIONAL DISPLAY FUNCTION

				′		
	plication is:	(X) app	lication Serial No.	08/016.292		
	ached application al application)	filed_F	ebruary 11, 19	993 , and	d amended on	 •
			(for declara	ition not accompanyin	າຊ avvlication)	
the claim which I as claim fore patent or	ve reviewed and understa s, as amended by any amo m aware and which is mate eign priority benefits unde inventor's certificate listed s certificate on this inventi	endment referre erial to the exam er Title 35, Unite d below and ha	of the specification of the above; that I as ination of this appled States Code §17 we also identified of	n of the above-iden acknowledge my du ication under 37 C.F 19, §172 or §365 of a on said list any fore	itified application, in ity to disclose inform F.R. 1.56(a); and that I iny foreign applicatio ign application for pa	ation of hereby on(s) for atent or
	plication Number	Country	_	ing Date	Priority Claime	
AP.	P4-74032 /	Japan	March	30, 1992	yes	no)
	P4-74033	Japan	March	30, 1992	yes	
insofar as application duty to d	P4-31046 claim the benefit of Title 3 s the subject matter of each in the manner provide lisclose any material informand the national or PC	th of the claims d by the first pa mation under 37	of this application aragraph of Title 3: C.F.R. 1.56(a) whi	i is not disclosed in 5, United States Co ich occurred betwee	i a listed prior United de, §112, I acknowle	d States dge my
An	plication Serial No.	. 1	Filing Date		Status	
ā Ap	prication berial 110.	•	6 –	(patent	(patented, pending, abandoned)	
9				,	., 0	
19,093; Lo Inge, Reg Reg. No. 31,333; G Boland, R Office co	24,513; J. Frank Osha, Regouis Gubinsky, Reg. No. 25, No. 26,916; Joseph J. Rud 29,710; Howard L. Bernste Sordon Kit, Reg. No. 30,76 Reg. No. 32,197, my attorney nnected therewith, and regINN, MACPEAK & SEAS	4,835; Neil B. S ch, Jr., Reg. No. ein, Reg. No. 25, 4; Susan J. Mac is to prosecute the equest that all c	iegel, Reg. No. 25, 26,577; Sheldon I. 665; Alan J. Kasper k, Reg. No. 30,951; is application and to orrespondence abo	200; David J. Cushi Landsman, Reg. N r, Reg. No. 25,426; K r; Frank L. Bernstein o transact all busines out the application l	ng, Reg. No. 28,703; o. 25,430; Richard C. enneth J. Burchfiel, R ı, Reg. No. 31,484; an s in the Patent and Tra be addressed to SUC	John R. Turner, Reg. No. Id Mark Idemark
informati willful fa Title 18 o	declare that all statement on and belief are believed lse statements and the like f the United States Code a atent issuing thereon.	to be true; and e so made are p	further that these unishable by fine o	statements were ma or imprisonment, or	ade with the knowled both, under Section	dge that 1001 of
_ Marc	ch 5, 1993		Takeharu		ARAKAW	A
Date	3,7 1330	First Inventor	First Name	Middle Initial	Last	Name
Residence_	Kawagoe-shi,	Signature	Jakeham	Graka	wa	
	Saitama, Japan	Post Office Add	No. 25 1	Aza Nishi-machi	, Ohaza Yamada,	
_		10st Office Addi			oan, c/o Pioneer	Electron
Citizenship	<u>Japanese</u>			n Kawagoe Works	4.7	
			· - ·	II Nawagoe Morns	ARAKI,	
Date	rch 5, 1993	Second Inventor	Morio			<u> </u>
	,	•	First Name	Middle Initia	il Last	Name
Residence_	Kawagoe-shi,	Signature	Morio	<u>Uraki</u>		
	Saitama, Japan	Post Office Add	No. 25-1,	Aza Nishi-mach	i, Ohaza Yamada,	·
Cister and the	Japanese			i, Saitama, Jar	pan, c/o Pioneer	Electro
Citizenship)					

Corporation Kawagoe Works

March 5, 1993	Ke Third Inventor —	enichi	NOBE
Residence Kawagoe-shi,	Signature	First Name Kenicki Kabi	Last Name
Saitama, Japan Citizenship Japanese		No. 25-1, Aza Nishi-machi, Ohaz Kawagoe-shi, Saitama, Japan, c/ Electronic Corporation Kawagoe	o Pioneer
Date March 5, 1993		Lyoshi First Name	Y.AMANAKA
Residence <u>Kawagoe-shi</u> , Saitama, Japan	3.8	Kiyoshi Yamanaha	Last Name
Citizenship Japanese		No. 25-1, Aza Nishi-machi, Ohaz Kawagoe-shi, Saitama, Japan, c/ Electronic Corporation Kawagoe	o Pioneer
Date			Last Name
☐ — — — — — — — — — — — — — — — — — — —	Post Office Address		
Date	Sixth Inventor	First Name	Last Name
Citizenship	Post Office Address		
	Seventh Inventor _		Last Name
			
Citizenship			
Date	Eighth Inventor	First Name	Last Name
Citizenship			
Date	Ninth Inventor	First Name	Last Name
	•		
Citizenship			

.

DECLARATION AND POWER OF A ORNEY

As a below named inventor, I here declare that my residence, post office agreess and citizenship are as stated below next to my name: that I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of the subject matter claimed and for which a patent is sought in the application entitled:

NAVIGATION APPARATUS WITH ENHANCED POSITIONAL DISPLAY FUNCTION

which application is: the attached application	🖾 application Serial No. 08/016,292				
(for original application)	filed February 11, 199	93, and am	ended on		
that I have reviewed and understan the claims, as amended by any amer which I am aware and which is mater claim foreign priority benefits under patent or inventor's certificate listed inventor's certificate on this invention	d the contents of the specification adment referred to above; that I acrial to the examination of this appliant Title 35, United States Code §119 below and have also identified or	cknowledge my duty to cation under 37 C.F.R. 1 9, §172 or §365 of any fo n said list any foreign a of the application on wh	I application, including disclose information of .56(a); and that I hereby breign application(s) for pplication for patent or nich priority is claimed:		
Application Number P4-74032 P4-74033 P4-31046 Thereby claim the benefit of Title 33 msofar as the subject matter of each application in the manner provided duty to disclose any material inform application and the national or PCI	Japan March Japan March Japan Februa: 5, United States Code §120 of any of the claims of this application by the first paragraph of Title 35, ation under 37 C.F.R. 1.56(a) whice	30, 1992 30, 1992 ry 18, 1992 United States applicati is not disclosed in a lis United States Code, § th occurred between the	ted prior United States 112, I acknowledge my		
Application Serial No.	Filing Date		Status		
		(patentea, p	(patented, pending, abandoned)		
Robert J. Seas, Jr., Reg. No. 21,092; Reg. No. 24,513; J. Frank Osha, Reg. 19,093; Louis Gubinsky, Reg. No. 24,516; Joseph J. Ruch Reg. No. 29,710; Howard L. Bernstei 31,333; Gordon Kit, Reg. No. 30,764 Boland, Reg. No. 32,197, my attorneys Office connected therewith, and rec MION, ZINN, MACPEAK & SEAS, I hereby declare that all statements information and belief are believed willful false statements and the like Title 18 of the United States Code ar	No. 24,625; Waddell A. Biggart, R. 1,835; Neil B. Siegel, Reg. No. 25,2 n., Jr., Reg. No. 25,665; Alan J. Kasper, Susan J. Mack, Reg. No. 30,951; to prosecute this application and to quest that all correspondence about 2100 Pennsylvania Avenue, N.W. made herein of my own knowled to be true; and further that these so made are punishable by fine or	Reg. No. 24,861; Robert (00; David J. Cushing, F Landsman, Reg. No. 25, Reg. No. 25,426; Kenne Frank L. Bernstein, Reg transact all business in the ut the application be ac , Washington, D.C. 200 edge are true and that statements were made ver imprisonment, or both	G. McMorrow, Reg. No. Reg. No. 28,703; John R. 430; Richard C. Turner, th J. Burchfiel, Reg. No. 28, No. 31,484; and Mark he Patent and Trademark Idressed to SUGHRUE, 37. all statements made on with the knowledge that in, under Section 1001 of		
or any patent issuing thereon.	•	• • • • • • • • • • • • • • • • • • •			
Date March 5, 1993	First Inventor		ARAKAWA		
Residence Kawagoe-shi,	First Name Signature Jakehazu	Middle Initial (Trafeawa	Last Name		
Saitama, Japan	Post Office Address No. 25-1, A	za Nishi-machi, Ol	naza Yamada,		
Citizenship Japanese	Kawagœ-shi	, Saitama, Japan,	c/o Pioneer Electron		
	Corporation	n Kawagoe Works			
Date March 5, 1993	Second Inventor		ARAKI		
Residence Kawagoe-shi, Saitama, Japan	First Name Mozio Post Office Address_No. 25-1, A	Middle Initial <i>Urakí</i> Aza Nishi-machi, O	Last Name haza Yamada,		
CitizenshipJapanese	Kawagoe-shi	i, Saitama, Japan, n Kawagoe Works	c/o Pioneer Electron		

